

Full wwPDB X-ray Structure Validation Report (i)

May 29, 2020 – 05:00 pm BST

PDB ID : 2WM3

Title: Crystal structure of NmrA-like family domain containing protein 1 in complex

with niflumic acid

Authors: Bhatia, C.; Yue, W.W.; Niesen, F.; Pilka, E.; Ugochukwu, E.; Savitsky, P.;

Hozjan, V.; Roos, A.K.; Filippakopoulos, P.; von Delft, F.; Heightman, T.;

Arrowsmith, C.; Weigelt, J.; Edwards, A.; Bountra, C.; Oppermann, U.

Deposited on : 2009-06-29

Resolution : 1.85 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at

https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.11

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0158

CCP4: 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

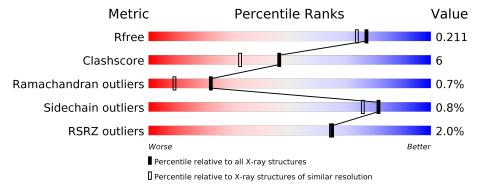
Validation Pipeline (wwPDB-VP) : 2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.85 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	2469 (1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592 (1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain		
			2%		
1	A	299	91%	8%	•



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2713 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

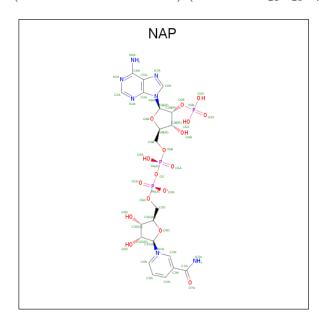
• Molecule 1 is a protein called NMRA-LIKE FAMILY DOMAIN CONTAINING PROTEIN 1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	296	Total 2324	C 1478	N 403	O 433	S 10	0	4	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Α	0	SER	-	expression tag	UNP Q9HBL8

• Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C₂₁H₂₈N₇O₁₇P₃).

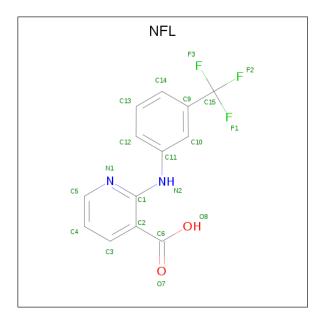


Mol	Chain	Residues	${f Atoms}$			ZeroOcc	AltConf		
9	Λ	1	Total	С	N	О	Р	0	0
	A	1	48	21	7	17	3	U	U

• Molecule 3 is 2-{[3-(TRIFLUOROMETHYL)PHENYL]AMINO}NICOTINIC ACID

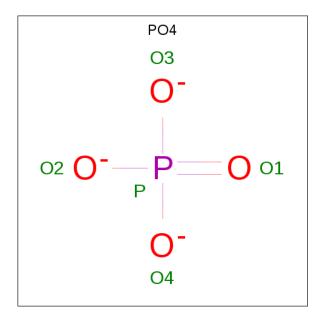


(three-letter code: NFL) (formula: $C_{13}H_9F_3N_2O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
2	Λ	1	Total	С	F	N	О	0	1
)	3 A	1	40	26	6	4	4	0	1
9	Λ	1	Total	С	F	N	О	0	0
)	A	1	20	13	3	2	2	U	0

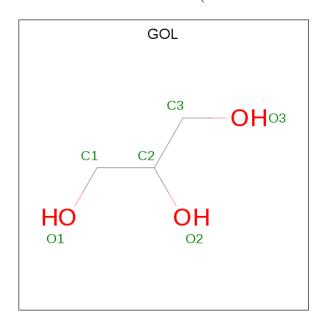
 \bullet Molecule 4 is PHOSPHATE ION (three-letter code: PO4) (formula: $\mathrm{O_4P}\,).$



Mol	Chain	Residues	Atom	ıs	ZeroOcc	AltConf
4	A	1	Total C) P l 1	0	0



• Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total 6	C 3	O 3	0	0

• Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total Cl 1 1	0	0

• Molecule 7 is water.

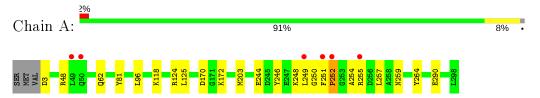
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	269	Total O 269 269	0	2



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: NMRA-LIKE FAMILY DOMAIN CONTAINING PROTEIN 1





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants	68.71Å 68.71Å 183.79Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 - 1.85	Depositor
Resolution (A)	48.59 - 1.85	EDS
% Data completeness	99.9 (50.00-1.85)	Depositor
(in resolution range)	99.9 (48.59-1.85)	EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.98 (at 1.86Å)	Xtriage
Refinement program	REFMAC 5.5.0089	Depositor
P. P.	0.166 , 0.197	Depositor
R, R_{free}	0.190 , 0.211	DCC
R_{free} test set	1928 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	23.2	Xtriage
Anisotropy	0.030	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40 , 43.9	EDS
L-test for twinning ²	$ < L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2713	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.86% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $< L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, PO4, NFL, NAP, CL

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 5 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mal	Chain	Bond	lengths	Bond angles		
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z > 5	
1	A	0.79	0/2377	0.78	1/3218 (0.0%)	

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
1	A	252	PRO	N-CA-C	-6.20	95.97	112.10

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2324	0	2298	22	0
2	A	48	0	23	1	0
3	A	60	0	24	9	0
4	A	5	0	0	1	0
5	A	6	0	7	1	0
6	A	1	0	0	0	0
7	A	269	0	0	8	1
All	All	2713	0	2352	30	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including



hydrogen atoms). The all-atom clashscore for this structure is 6.

All (30) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:A:3:ASP:N	7:A:2001:HOH:O	1.96	0.97
1:A:244:GLU:OE2	7:A:2210:HOH:O	1.93	0.85
1:A:257:LEU:HD13	3:A:1300[B]:NFL:F1	1.65	0.84
5:A:1304:GOL:H11	7:A:2269:HOH:O	1.86	0.73
1:A:246:TYR:O	1:A:254:ALA:HB1	1.87	0.73
1:A:170:ASP:OD1	1:A:172:LYS:N	2.19	0.71
3:A:1301:NFL:O8	7:A:2267:HOH:O	2.11	0.69
1:A:81:TYR:OH	7:A:2081:HOH:O	2.00	0.66
1:A:255[B]:ARG:NH1	7:A:2214:HOH:O	2.31	0.64
1:A:255[B]:ARG:CZ	1:A:259:ASN:HD21	2.13	0.62
1:A:124:ARG:NH1	4:A:1303:PO4:O3	2.25	0.60
3:A:1300[B]:NFL:N1	3:A:1300[B]:NFL:H10	2.17	0.59
1:A:62:GLN:HG3	1:A:96:LEU:CD1	2.36	0.54
1:A:249:LEU:O	1:A:251[B]:PHE:CD2	2.62	0.53
3:A:1300[A]:NFL:N1	3:A:1300[A]:NFL:H12	2.26	0.51
1:A:252:PRO:HB2	7:A:2032:HOH:O	2.10	0.51
1:A:264:TYR:OH	3:A:1300[A]:NFL:H4	2.11	0.50
3:A:1300[A]:NFL:N2	3:A:1300[A]:NFL:O7	2.44	0.49
1:A:251[B]:PHE:CE1	1:A:254:ALA:HB2	2.48	0.48
1:A:62:GLN:HG3	1:A:96:LEU:HD11	1.95	0.48
3:A:1300[B]:NFL:N1	3:A:1300[B]:NFL:C10	2.75	0.46
1:A:249:LEU:CB	1:A:251[B]:PHE:CE2	3.00	0.45
1:A:249:LEU:HB2	1:A:251[B]:PHE:CE2	2.52	0.44
3:A:1301:NFL:N1	3:A:1301:NFL:H10	2.33	0.43
1:A:48:ARG:NH1	7:A:2046:HOH:O	2.43	0.42
2:A:1299:NAP:O2D	3:A:1300[A]:NFL:O8	2.25	0.42
1:A:118:LYS:HA	1:A:125:LEU:O	2.20	0.41

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$egin{aligned} ext{Interatomic} \ ext{distance} \ (ext{Å}) \end{aligned}$	Clash overlap (Å)
7:A:2070:HOH:O	7:A:2252:HOH:O[7_546]	2.14	0.06



5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	298/299 (100%)	292 (98%)	4 (1%)	2 (1%)	22 9

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	248	LYS
1	A	250	GLY

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Analysed Rotameric		Percentiles	
1	A	$242/251 \ (96\%)$	240 (99%)	2 (1%)	81 76	

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	203	MET
1	A	290	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	292	HIS



5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 7 ligands modelled in this entry, 1 is monoatomic - leaving 6 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Tune	Chain	Res	Link	Во	ond leng	ths	Е	ond ang	gles
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	NFL	A	1300[B]	_	19,21,21	2.15	4 (21%)	26,30,30	1.42	4 (15%)
5	GOL	A	1304	_	5,5,5	1.13	1 (20%)	5,5,5	1.84	2 (40%)
4	PO4	A	1303	-	4,4,4	1.02	0	6,6,6	0.77	0
3	NFL	A	1301	_	19,21,21	2.02	1 (5%)	26,30,30	1.78	7 (26%)
2	NAP	A	1299	-	45,52,52	2.12	8 (17%)	56,80,80	3.25	12 (21%)
3	NFL	A	1300[A]	_	19,21,21	1.81	3 (15%)	26,30,30	1.93	6 (23%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	${f Torsions}$	Rings
3	NFL	A	1300[B]	-	-	2/10/14/14	0/2/2/2
3	NFL	A	1301	-	-	0/10/14/14	0/2/2/2
2	NAP	A	1299	-	-	5/31/67/67	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NFL	A	1300[A]	-	-	0/10/14/14	0/2/2/2
5	GOL	A	1304	-	-	2/4/4/4	-

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	${ m Observed}({ m \AA})$	Ideal(Å)
2	A	1299	NAP	C6N-C5N	-9.81	1.16	1.38
3	A	1301	NFL	C2-C6	8.16	1.55	1.47
3	A	1300[B]	NFL	C2-C6	7.44	1.54	1.47
3	A	1300[A]	NFL	C2-C6	6.17	1.53	1.47
2	A	1299	NAP	C5N-C4N	-5.50	1.27	1.38
2	A	1299	NAP	C6N-N1N	-4.95	1.23	1.35
3	A	1300[B]	NFL	C15-C9	2.87	1.56	1.49
3	A	1300[A]	NFL	C11-N2	-2.84	1.34	1.40
2	A	1299	NAP	P2B-O2B	2.78	1.64	1.59
3	A	1300[B]	NFL	C1-N2	-2.77	1.32	1.36
2	A	1299	NAP	O4D-C1D	2.72	1.44	1.41
3	A	1300[B]	NFL	C11-N2	-2.70	1.34	1.40
3	A	1300[A]	NFL	C15-C9	2.59	1.55	1.49
5	A	1304	GOL	O1-C1	-2.25	1.32	1.42
2	A	1299	NAP	C2N-N1N	-2.18	1.32	1.35
2	A	1299	NAP	O4D-C4D	-2.15	1.40	1.45
2	A	1299	NAP	C2A-N3A	2.13	1.35	1.32

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	1299	NAP	C6N-N1N-C2N	-14.08	109.13	121.97
2	A	1299	NAP	C5N-C4N-C3N	-10.51	107.91	120.34
2	A	1299	NAP	C6N-C5N-C4N	8.20	131.36	119.44
2	A	1299	NAP	O7N-C7N-N7N	-7.32	112.18	122.58
2	A	1299	NAP	C5N-C6N-N1N	6.31	129.45	120.40
2	A	1299	NAP	C3N-C7N-N7N	6.19	125.18	117.75
3	A	1300[A]	NFL	N2-C1-N1	5.26	124.62	118.40
3	A	1300[A]	NFL	C3-C2-C1	4.75	121.00	117.46
2	A	1299	NAP	C3N-C2N-N1N	4.45	124.78	120.43
3	A	1301	NFL	F3-C15-C9	-3.82	104.53	112.93
3	A	1300[A]	NFL	C2-C1-N2	-3.71	115.95	120.01
3	A	1301	NFL	C3-C2-C1	3.66	120.19	117.46
3	A	1300[B]	NFL	C10-C9-C15	3.41	124.19	119.58
3	A	1301	NFL	N2-C1-N1	3.38	122.39	118.40
2	A	1299	NAP	N3A-C2A-N1A	-2.99	124.01	128.68

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Mol	Chain	Res	Type	Atoms	${f Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
2	A	1299	NAP	O2A-PA-O1A	2.77	125.95	112.24
5	A	1304	GOL	O2-C2-C3	2.57	120.45	109.12
3	A	1301	NFL	C14-C9-C10	2.56	122.70	117.76
2	A	1299	NAP	O7N-C7N-C3N	2.51	122.64	119.63
3	A	1301	NFL	C5-N1-C1	2.43	121.58	116.77
3	A	1301	NFL	C13-C14-C9	-2.39	118.25	120.76
2	A	1299	NAP	O3X-P2B-O1X	2.38	119.99	110.68
2	A	1299	NAP	O4D-C1D-C2D	-2.33	103.52	106.93
5	A	1304	GOL	O1-C1-C2	-2.26	99.37	110.20
3	A	1300[A]	NFL	C10-C9-C15	2.26	122.63	119.58
3	A	1300[B]	NFL	C14-C9-C15	-2.22	116.44	119.97
3	A	1301	NFL	C2-C1-N1	-2.16	118.97	121.90
3	A	1300[B]	NFL	C4-C5-N1	-2.08	120.03	123.43
3	A	1300[A]	NFL	F3-C15-C9	-2.06	108.41	112.93
3	A	1300[B]	NFL	F1-C15-C9	-2.05	108.43	112.93
3	A	1300[A]	NFL	C5-N1-C1	2.02	120.77	116.77

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1299	NAP	O4D-C1D-N1N-C2N
5	A	1304	GOL	O1-C1-C2-C3
5	A	1304	GOL	O1-C1-C2-O2
3	A	1300[B]	NFL	N1-C1-N2-C11
3	A	1300[B]	NFL	C2-C1-N2-C11
2	A	1299	NAP	C2B-O2B-P2B-O1X
2	A	1299	NAP	C2B-O2B-P2B-O2X
2	A	1299	NAP	C5D-O5D-PN-O1N
2	A	1299	NAP	O4B-C4B-C5B-O5B

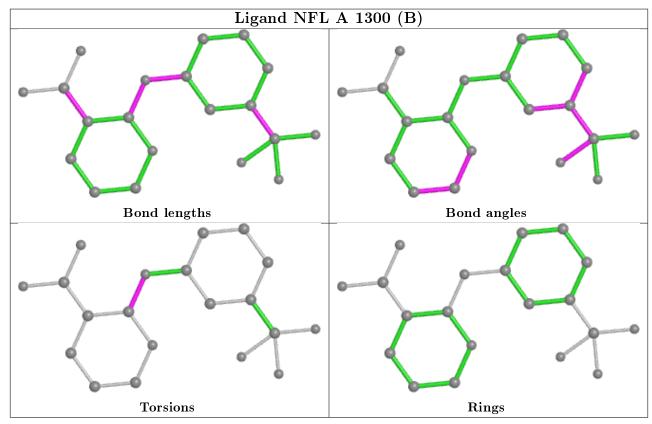
There are no ring outliers.

6 monomers are involved in 11 short contacts:

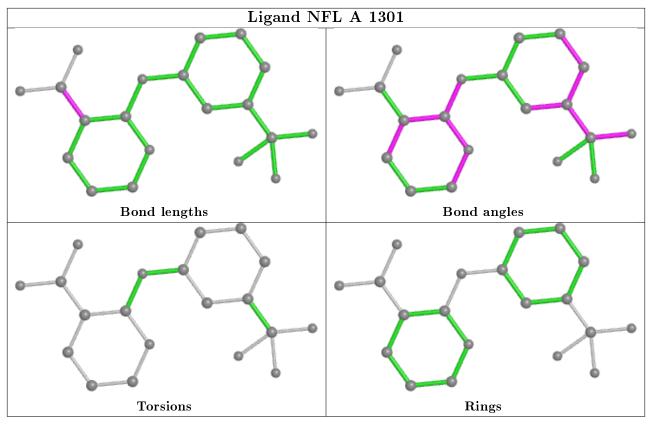
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1300[B]	NFL	3	0
5	A	1304	GOL	1	0
4	A	1303	PO4	1	0
3	A	1301	NFL	2	0
2	A	1299	NAP	1	0
3	A	1300[A]	NFL	4	0

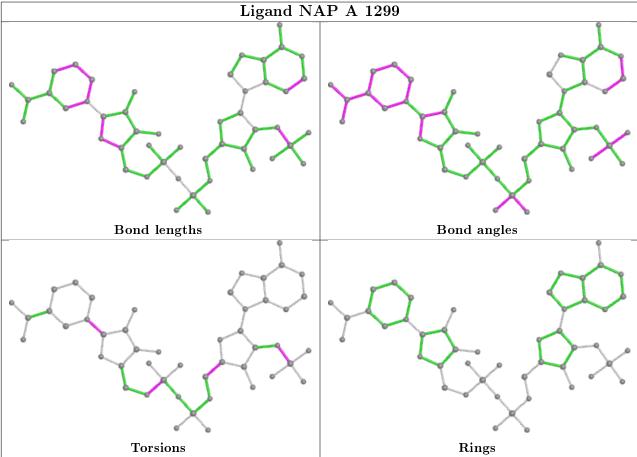


The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

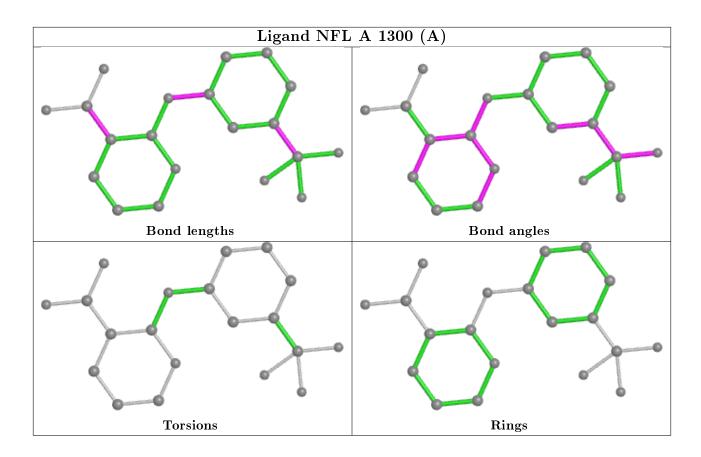












5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



6 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ>2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	$ ight)$ $ m Q{<}0.9$
1	A	296/299 (98%)	-0.04	6 (2%) 65 64	5, 10, 22, 29	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	251[A]	PHE	4.5
1	A	49	LEU	3.0
1	A	255[A]	ARG	2.9
1	A	252	PRO	2.3
1	A	249	LEU	2.2
1	A	50	GLN	2.1

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B\text{-}factors}({f \AA}^2)$	Q<0.9
5	GOL	A	1304	6/6	0.86	0.26	29,36,40,44	0

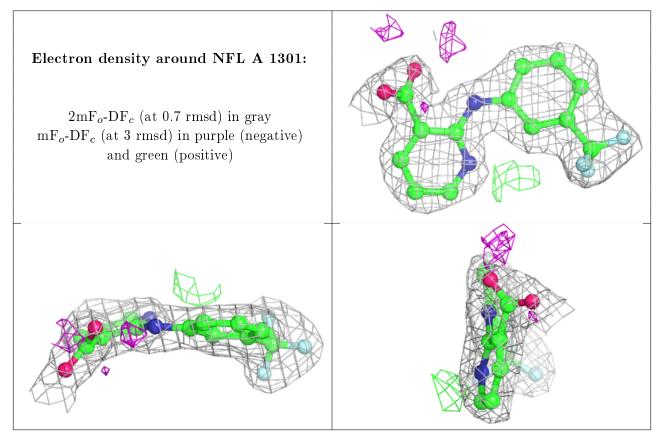
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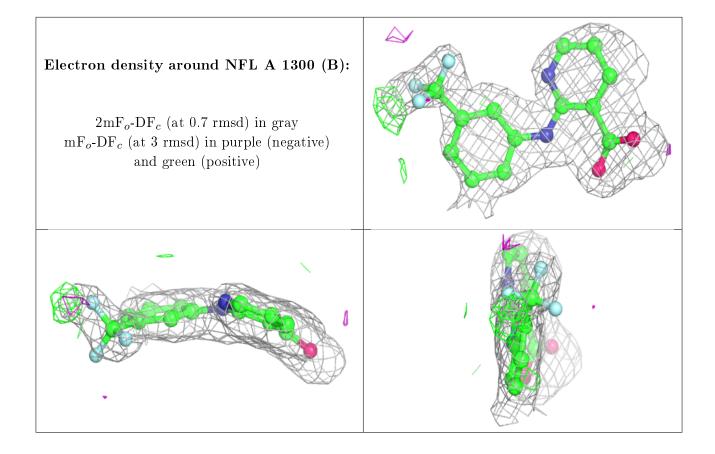
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}({ m \AA}^2)$	Q < 0.9
3	NFL	A	1301	20/20	0.90	0.13	30,37,45,45	0
4	PO4	A	1303	5/5	0.93	0.21	86,86,86,86	0
3	NFL	A	1300[B]	20/20	0.96	0.14	13,20,27,31	20
3	NFL	A	1300[A]	20/20	0.96	0.14	13,19,27,29	20
2	NAP	A	1299	48/48	0.97	0.09	13,18,21,23	0
6	CL	A	1305	1/1	0.97	0.14	65,65,65,65	0

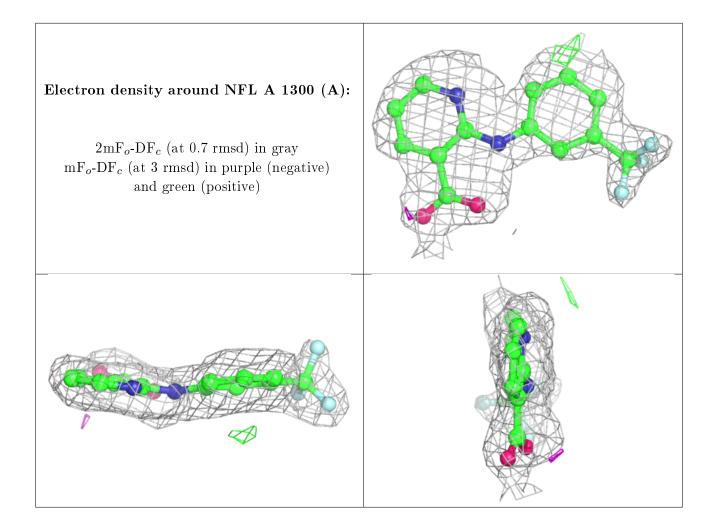
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



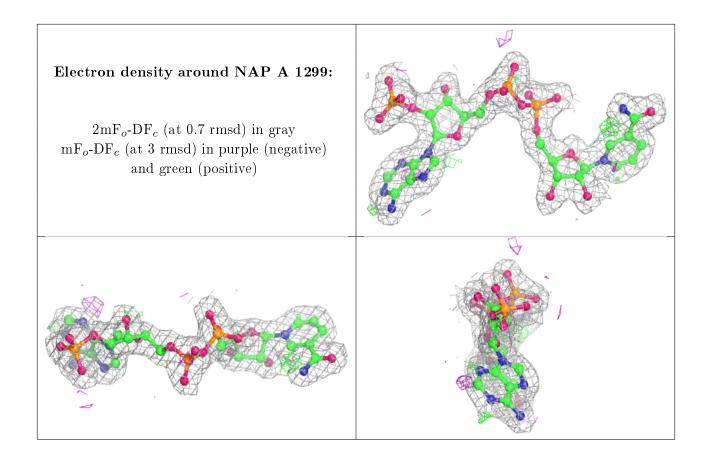












6.5 Other polymers (i)

There are no such residues in this entry.

